



E-5324

Catalog No: tcsc0014924

Available S	Sizes		
Size: 1mg			
Size: 5mg			
Size: 10mg			
Specification	ons		
<b>CAS No:</b> 141799-76-0			
Formula: C <sub>26</sub> H <sub>34</sub> N <sub>4</sub> O <sub>2</sub>			
<b>Pathway:</b> Metabolic Enzyme/Pr	otease		
<b>Target:</b> Acyltransferase			
Purity / Grade: >98%			
<b>Solubility:</b> 10 mM in DMSO			
Observed Molecula	ır Weight:		

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**Product Description** 

E-5324 is potent inhibitor of acyl-CoA:cholesterol acyltransferase (**ACAT**) with  $IC_{50}$ s of 44 to 190 nM.

IC50 & Target: IC50: 44 to 190 nM (ACAT)<sup>[1]</sup>

In Vitro:

434.57





E-5324 is a potent ACAT inhibitor with IC $_{50}$ s of 44 to 190 nM in microsomes. E-5324 shows no effect on triglyceride synthesis up to 10  $\mu$ M. E-5324 also has no effect on bovine pancreatic cholesterol esterase or lecithin: cholesterol acyltransferase (LCAT) up to 10  $\mu$ M. E-5324 inhibits the incorporation of [ $^3$ H]oleate into cholesteryl [ $^3$ H]oleate in a concentration-dependent manner with an IC $_{50}$  of 0.44  $\mu$ M. E-5324 also inhibits [ $^3$ H]cholesteryl ester synthesis with an IC $_{50}$  of 0.41  $\mu$ M[ $^1$ ].

In Vivo: The areas under the cholesterol-time curves for duration of this study (AUC) for control, E-5324 0.02% and E-5324 0.1% are 104985±4411, 106096±4476 and 105231±4 348 mg×day/dL, respectively. The high dose of E-5324 (0.1%) significantly reduces the surface involvement by 34% and 54% in the aortic arch and thoracic aorta, respectively. E-5324 treatment significantly reduces the wet weight and protein content. In the aortic arch, the high dose of E-5324 (0.1%) significantly reduces both cholesteryl ester and total cholesterol by 60% and 59%, respectively. The high dose of E-5324 (0.1%) markedly reduces the ACAT activities in the aortic arch and thoracic aorta by 35% and 44%, respectively<sup>[2]</sup>.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!